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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/041,575	01/10/2002	Yoshinori Watanabe	Q67975	5215	
7590 05/06/2004 SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER		
			NGUYEN, DUC MINH		
2100 Pennsylva Washington, D	nia Avenue, N.W. C 20037-3213		ART UNIT PAPER NUMBER		
,			2643		
			DATE MAILED: 05/06/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>							
•	Applicati	on No.	Applicant(s)				
	10/041,5	75	WATANABE ET AL.				
Office Action Summary	Examine	<u> </u>	Art Unit				
	Duc Ngu	yen	2643				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133)  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
2a) This action is <b>FINAL</b> . 2b) ⊠ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	•						
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>2-10,12-20,22 and 23</u> is/are allowed.							
6)⊠ Claim(s) <u>1,11 and 21</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
Attachment(s)							
1) Motice of References Cited (PTO-892)		4) Interview Summar					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application (PTO-152)							
3)     Information Disclosure Statement(s) (PTO-1449   Paper No(s)/Mail Date 2.	9 or P1 0/58/08)	6) Other:	i αιστι Αρμισαίστι (ΕΤΟ+192)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office Action Summa	ary	Part of Paper No./Mail Date 5				

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,11, 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Fortune et al (5,623,429).

Consider claims 1, 11, 21. Fortune teaches a method of estimating radio wave propagation characteristics by detecting a shield shielding a ray among a plurality of objects, wherein the plurality of objects are provided in an observation area as defined in a three dimensional space, and the ray is radiated over the observation area (see fig. 5, col. 1, ln. 55 to col. 2, ln. 16), and a closed space confining the ray in a sense of the ray colliding with the shield is divided into a plurality of partial spaces (col. 2, ln. 45 to col. 3, ln. 67; especially col. 3, ln. 34-67; col. 8, ln. 21 to col. 9, ln. 57), and a new ray confined by each of the plurality of partial spaces is generated (col. 3, ln. 59 to col. 4, ln. 12; col. 6, ln. 34-47).

## Allowable Subject Matter

3. Claims 2-10, 12-20, 22-23 are allowed over the prior art of record.

#### Conclusion

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Nguyen whose telephone number is 703-308-7527. The examiner can normally be reached on 6:00AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on 703-305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Duc Nguyen
Primary Examiner
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4/27/04